

- Faculté des sciences
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Global change and restoration ecology (3BL2274)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en biologie	Cours: 30 pg	Voir ci-dessous	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante

Prof. Edward Mitchell

Contenu

The course includes presentation, group discussions and personal work on selected topics in the general themes of Global Change and Restoration Ecology.

Field excursions may be offered to show practical examples of ecosystem restoration in Switzerland and discuss with practitioners about the challenges of such initiatives. The topics and location will be determined at the beginning of the semester.

Students will conduct group projects in which they synthesize existing knowledge on one aspect of global change and restoration ecology, present their work and write a personal essay.

Forme de l'évaluation

Important note: The evaluation mode will depend on the number of students. If this number is too high it may be impossible to fit group presentations in the allocated schedule.

The student's essays and/or presentations will be graded (if both are done, the grade will be calculated as 2/3 essay and 1/3 presentation).

First attempt:

Evaluation criteria: Students perform small personal projects. They then write a report (format to be specified, e.g. 3 pages two-sided, ca. 3000 words excluding tables and figures) which will contain the main results, an analysis and interpretation of the data following the guidelines provided during the course.

The reports will be evaluated based on the following criteria:

Quality of the presentation, readability of the text and illustrations, legends of graphs and tables, etc.

Scientific content, pertinence of numerical analyses and interpretation of results, discussion of results, limitations of the methods, perspectives.

Deadline: The reports are due one week after the last course.

Second attempt:

If the results of the first attempt is below 4 and not compensated in the module, students have to contact the responsible of the evaluation at the end of the session in order to be evaluated in a the second attempt.

The second attempt consists in a revision of the previous report based on the feedback of the professors. The revised version of the report should be submitted at latest one week before the beginning of the following exam session.

Evaluation criteria for the second attempt will be the same as for the first.

Modalités de rattrapage

Second attempt:

If the results of the first attempt is below 4 and not compensated in the module, students have to contact the responsible of the evaluation at the

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end of the session in order to be evaluated in a the second attempt.

The second attempt consists in a revision of the previous report based on the feedback of the professors and on a revised oral presentation. The revised version of the report should be submitted at latest one week before the beginning of the following exam session. The oral presentation would be organized with the responsible of the evaluation.

Evaluation criteria for the second attempt will be the same as for the first.

Documentation

Lecture documents, scientific articles and other relevant litterature will be provided. Students are also expected to do their own litterature research on the topic of the choice.

Pré-requis

Basis of ecology

Forme de l'enseignement

The course includes presentation, group discussions and personal work.

For the objectives see Moodle.

Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Criticise constructively existing actions aiming to solve environmental problems
- Evaluate different components of global change and evaluate how they contribute to the current biodiversity decline
- Formulate practical recommendations to solve environmental problems
- Describe an example of environmental problem, its causes and what attempts have been made to solve the problem

Compétences transférables

- Criticise the work of other students/peers
- Recommend practical measures to solve environmental problems
- Identify strengths and weaknesses in actions and actions plans with respect to their likelihood of success
- Integrate criticisms to revise a report
- Synthesise criticisms (reviews) of a report